



SPACE SHUTTLE PROGRAM
Space Shuttle Vehicle Engineering Office
NASA Johnson Space Center, Houston, Texas



STS-106 FLIGHT READINESS REVIEW

FERRY READINESS AUGUST 29, 2000



STS-106 Flight Readiness Review Ferry Readiness

Presenter **Don L. McCormack, Jr.**

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Ferry Plan Summary

- Ferry Planning Readiness Review conducted on 8/18/00 with no issues identified
- Ferry Flight Readiness Review to be conducted one day prior to planned ferry date
- Hardware summary:
 - Orbiter: OV-104 (Atlantis)
 - NEOM Ferry Weight (lbs): 219,930 (No Fluids Off-loaded)
 - NEOM Ferry Center of Gravity (in): X_o 1115.4 Y_o -0.3 Z_o 372.2
 - » Mass properties are within specified limits
 - Attach hardware and ferry plugs ready to support
 - Tailcone # 1 ready to support
 - Shuttle Carrier Aircraft (SCA): NASA 905
- Configuration drawings have been released



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Ferry Plan Summary - Continued

- DFRC seven day turnaround with ready-to-ferry on day eight (early morning)
- Flight plan:
 - Day 1: Edwards AFB, CA to Dyess AFB, TX Refuel
 - Dyess AFB, TX to Eglin AFB, FL Refuel & RON
 - Day 2: Eglin AFB, FL to KSC SLF, FL
- Weather alternates and emergency landing fields selected
- Pathfinder: USAF C-141
- Purge - decision to deploy purge equipment based on predicted temperatures at potential ferry overnight stop locations
 - Purge circuit 1 (OMS/RCS, ambient temperature below 45 °F)
 - Purge circuit 2 (SpaceHab, ambient temperature below 50 °F)



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STS-106 FERRY READINESS STATEMENT

A Ferry Planning Readiness Review was conducted in accordance with the Space Shuttle Vehicle Engineering Office flight preparation process plan contained in NSTS 08117, Requirements and Procedures for Certification of Flight Readiness. This certifies that aircraft, equipment, and ferry requirements are ready to support Orbiter ferry operations.

**Don L. McCormack, Jr.
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